

0073915

**SAF-RC-040**  
**300 Area D&D Waste Characterization**  
**Sampling - Other Solid**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Tim Lee L1-07

KW 9/11/2007  
INITIAL/DATE

**COMMENTS:**

**SDG 07-A-4916**

**SAF-RC-040**

Rad only    ☒ Chem only    Rad & Chem  
☒ Complete    Partial

**Sample Location/Waste Site: 337B in process Asbestos**

**RECEIVED**  
SEP 17 2007

**EDMC**



9/10/07  
Page 1 of 2

**SUBMITTED TO:**

Joan Kessner  
Washington Closure Hanford  
2620 Fermi Avenue, MSIN H4-21  
Richland, WA 99354




**REFERENCE DATA:**

Client Sample No.:	J15630 through J15631
P.O. No.:	Not Available
Sample Location:	337B inprocess asbestos
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-4916
DCL Sample ID No.:	07-28467 through 07-28468
Sample Receipt Date:	8/31/07
Analysis Date:	9/10/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy\*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.

  
Shawn Smythe  
Analyst

  
Anna Marie Ristich  
Reviewer

\*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

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9/10/07

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**


Client: Washington Closure Hanford  
Location: 337B inprocess asbestos  
Set ID: 07-A-4916

Client Sample ID:	J15630	J15631
DCL Sample ID:	07-28467	07-28468
<b>Macroscopic Examination</b>		
Accepted/Rejected:	Accepted	Accepted
Homogeneity:	Homog.	Layered
Color:	Grey	Inseparable
Texture:	Pwdry/Fbrs	Grey/Black
Description:	Material	Crmby/Fbrs
Analysis:	PLM	Material PLM
<b>Asbestiform Minerals</b>		
% Chrysotile:	>20 ≤ 30	
% Amosite:		
% Crocidolite:		
% Tremolite - Actinolite:		
% Anthophyllite:		
% Total Asbestos:	>20 ≤ 30	ND
<b>Other Materials</b>		
% Cellulose:		>5 ≤ 10
% Fiberglass:	>5 ≤ 10	>10 ≤ 20
% Other Fibers:		
% Resin/Binder:		
% Non Fibrous:	>50 ≤ 60	>60 ≤ 70

ND = None Detected    Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
Shawn Smythe  
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-310		Page 1 of 1	
Collector Mike Stedovich	Telephone No. 430-5466	Project Coordinator KESNER, JH		Price Code 9K		Date Turnaround 7 Days			
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soil	Sampling Location 337B In process Asbestos	SAF No. RC-040		Method of Shipment Fed Ex					
Ice Chest No. FED EX BOX	Field Label No. EL-16185-EL-1603.2	COA *See below							
Shipped To DioxChem Laboratories - Cincinnati	Office Property No. NR	Date of Labeling/Alt. ID No. NR							
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos		A0706417		8-30-07					
Special Handling and/or Storage									
SAMPLE ANALYSIS 07 A-4916									
Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Notes				
J15630	OTHER SOLID	8-30-07	830	P					
J15631	OTHER SOLID	8-30-07	835	I					
	OTHER SOLID			Sg					
	OTHER SOLID								
	OTHER SOLID								
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS					
Relinquished By/Received From	Date/Time	Received By/Received In	Date/Time	*Laboratory Analysis, Data Management, and Shipping COA - ID-0400000					
TA Cer. v. J. v. A. 8-30-07/830	8-30-07/830	Received By/Received In	Date/Time	*Sampling COA -					
Relinquished By/Received From	Date/Time	Received By/Received In	Date/Time						
Relinquished By/Received From	Date/Time	Received By/Received In	Date/Time						
Relinquished By/Received From	Date/Time	Received By/Received In	Date/Time						
Relinquished By/Received From	Date/Time	Received By/Received In	Date/Time						
Relinquished By/Received From	Date/Time	Received By/Received In	Date/Time						
LABORATORY SECTION	Received By	Date/Time		Disposed By		Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method	Date/Time		Date/Time		Date/Time			